****

**MICRO PROJECT**

**Academic year**

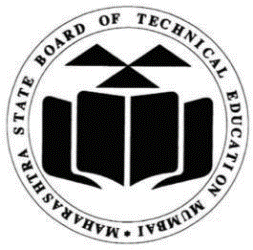
**2021-22**

**Title of the project**

**MCQ exam website for Javascript**

**Program: Computer Engineering Program code: CO5I**

**Course: Client Side Scripting Language Course code: 22519**



**MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION**

**Certificate**

This is to certify that Mr. /Ms. **Vedangee Poyarekar, Sahil Galani, Chirag Mangtani, Hiten Dusseja** Roll No. **05-08** of **Fifth** Semester of Diploma in **Computer Engineering** of Institute**, VES POLYTECHNIC (Code: 0004)** has completed the Micro Project satisfactorily in Subject – **Client Side Scripting Language (22519)** for the academic year 2021- 2022 as prescribed in the curriculum.

Place: Chembur, Mumbai Enrollment No: 1900040114,115,145,146

Date: Exam Seat No: ………………………….

**Subject Teacher Head of the Department Principal**

**INDEX**

**Academic year:** 2021-22 **Name of the faculty:** Mrs. Shubhangi Chintawar

**Program code:** CO5I **Course & course code:** CSS (22519)

**Name of the candidate:** Vedangee Poyarekar, Sahil Galani, Chirag Mangtani, Hiten Dusseja

**Roll No.** 05-08 **Enrollment No.** 1900040114,115,145,146

|  |  |  |
| --- | --- | --- |
| **Sr.No** | **Content** | **Page No.** |
| 1 | Project Proposal | 1 |
| 2 | Action plan | 2 |
| 3 | Resource required | 2 |
| 4 | Introduction | 3 |
| 5 | Actual Procedure |  |
| 6 | Output |  |
| 7 | Skill developed |  |
| 8 | Evaluation sheet |  |

**Annexure – I**

**Micro-Project Proposal**

**MCQ exam website for Javascript**

**1.0 Aim/Benefits of the Micro-Project**

This Micro-Project aims at:

* To understand the working of Javascript in html webpages.
* To learn and implement Javascript arrays and objects.
* To learn how to design control flow algorithms and implement them using Javascript.
* To learn and implement events in Javascript for dynamism in the webpages.

**2.0 Course Outcomes Addressed**

1. Create interactive web pages using program flow control structure [ ✓ ]
2. Implement Arrays and functions in JavaScript. [ ✓ ]
3. Create event based web forms using JavaScript. [ ✓ ]
4. Use JavaScript for handling cookies. [ ✓ ]
5. Create interactive webpage using regular expressions for validations. [ ]
6. Create menus and navigations in web page. [ ✓ ]

**3.0 Proposed Methodology**

* Discussion about topic with guide and among group members
* Literature Survey
* Submission of project proposal
* Information collection
* Analysis of Data
* Compilation of the content
* Discussion about the code
* Representation
* Implementing the code
* Editing and revising the content
* Report Preparation

**4.0 Action Plan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR. No.** | **Details of activity** | **Planned Start date** | **Planned Finish date** | **Name of Responsible Team Members** |
| **1** | Finalization of project Title and Scope |  |  | **All** |
| **2** | Project Definition |  |  | **All** |
| **3** | Design Procedure (Algorithm) |  |  | **All** |
| **4** | Design Structure (Flowchart) |  |  | **All** |
| **5** | Coding and Testing |  |  | **All** |
| **6** | Output |  |  | **All** |
| 7 | Report writing |  |  | **All** |
| 8 | Demonstration of project & final submission |  |  | **All** |

**5.0 Resources Required**

|  |  |  |
| --- | --- | --- |
| **Sr.No.** | **Equipment Name with Broad Specification** | **Remark if any** |
| 1 | Hardware Computer System: Computer (i3-i5 preferable),  RAM minimum 2 GB and onwards |  |
| 2 | Operating System: Windows 7 or Later Version/LINUX version 5.0  or Later Version |  |
| 3 | Software: |  |

**Name of** Team **Members with Roll Nos.**

**1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Mrs. Shubhangi Chintawar**

**Name and Signature of Course Teacher**

**Annexure – II**

**Micro-Project Report**

**MCQ exam website for Javascript**

1. **Rationale**

JavaScript is limited featured client side programming language. JavaScript runs at the client end through the user's browser without sending messages back and forth to the server. It is widely used by the web developers to do things such as build dynamic web pages, respond to events, create interactive forms, validate data that the visitor enters into a form, control the browser etc. This course helps student to create highly interactive web pages using these features.

**2.0 Aim/Benefits of the Micro-Project**

This Micro-Project aims at:

* To understand the working of Javascript in html webpages.
* To learn and implement Javascript arrays and objects.
* To learn how to design control flow algorithms and implement them using Javascript.
* To learn and implement events in Javascript for dynamism in the webpages.

**3.0 Course Outcomes Addressed**

1. Create interactive web pages using program flow control structure [ ✓ ]
2. Implement Arrays and functions in JavaScript. [ ✓ ]
3. Create event based web forms using JavaScript. [ ✓ ]
4. Use JavaScript for handling cookies. [ ✓ ]
5. Create interactive webpage using regular expressions for validations. [ ]
6. Create menus and navigations in web page. [ ✓ ]

**4.0 Literature Review**

* JavaScript (often shortened to JS) is a lightweight, interpreted, object-oriented language with first-class functions, and is best known as the scripting language for Web pages, but it's used in many non-browser environments as well. It is a prototype-based, multi-paradigm scripting language that is dynamic, and supports object-oriented, imperative, and functional programming styles.
* JavaScript runs on the client side of the web, which can be used to design / program how the web pages behave on the occurrence of an event. JavaScript is an easy to learn and also powerful scripting language, widely used for controlling web page behavior.
* Javascript makes it easy for the MCQ based exam to be more dynamic and optimized. The website will become an easy to use product for the exam giver and since they cannot afford to loose time while give a test, this easiness and easy navigation to the questions developed using Javascript will be very beneficial for them. Javascript also provides event handling, which helps us to provide a better user experience to the user.
* Javascript’s basic mathematical calculations help us to acess students using formulas for percentage. It also helps us to keep a track of the time and make a timer for the student who is giving the exam.
* Javascript cookies let us create a cookie which helps us to store the assessments and reflect them on our website. The user can also download the assessments or print for keeping a record of his/her/their performance.

**5.0 Actual Procedure Followed.**

**Algorithm**

**Flowchart**

**Coding**

**6.0 Actual Resources Used**

|  |  |  |
| --- | --- | --- |
| **Sr.No.** | **Equipment Name with Broad Specification** | **Remark if any** |
| 1 | Hardware Computer System: i5-9300H CPU, 8 GB RAM, 1 TB HDD |  |
| 2 | Operating System: Windows 10 |  |
| 3 | Software: Visual Studio Code, Browser |  |

**7.0 Outputs of the Micro-Projects**

**8.0 Skill Developed / learning out of this Micro-Project**

1. We learnt how to write, save and execute a sh(shell script) program.
2. We learnt about new commands like shuf, sh, read & echo and their options too.
3. We understood the importance of working in team and listening to each other's ideas and views to further improve our project and our knowledge.
4. We have also learnt to coordinate with the team members and support each other for successful completion of the project.
5. We learnt to follow the deadlines and complete our work within specified time frame.

**9.0 Application of this Micro-Project**

1. The micro-project is a very great way for students to give MCQ based exams and it is very helpful since most of the exams that happen these days are MCQ based.
2. It is helpful for competitive exams too, we can add the neeeded
3. The questions can be changed and the same website can be used for various other subjects.
4. Since the user is able to print the result, the user can keep a record of his score and keep a record of his progress.

**Annexure – III**

**Suggested Rubric for Assessment of Micro-Project**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Characteristic to be assessed** | **Poor**  **( Marks 1 - 3 )** | **Average**  **( Marks 4 - 5 )** | **Good**  **( Marks 6 - 8 )** | **Excellent**  **( Marks 9- 10 )** |
| **1** | Relevance to the course | Relate to very few LOs | Related to some LOs | Take care of at-least one CO | Take care of more than one CO |
| **2** | Literature review /information collection | Not more than two sources very old reference | At-least 5 relevant sources, at least 2 latest | At –least 7 relevant sources, most latest | About 10 relevant sources, most latest |
| **3** | Completion of the Target as per project proposal | Completed less than 50% | Completed 50 to 60% | Completed 60 to 80% | Completed more than 80 % |
| **4** | Analysis of Data and representation | Data neither organized nor presented well | Sufficient and appropriate enough data generated but not organized and not presented well. | Sufficient and appropriate enough data generated which is organized and but not used. | Enough data collected and sufficient and presenting data. |
| 5 | Quality of Prototype/Model | Incomplete Programming code | Just assembled and some codeis not functioning well. | Well assembled and functioning parts. But no creativity in design and use of graphics function | Well assembled with proper functioning parts.. Creativity in design and use of graphics function |
| **6** | Report Preparation | Very short, Details about methods, and conclusions omitted, some details are wrong | Nearly sufficient and correct details about methods, and conclusion. but clarity is not there in presentation. | Detailed, correct and clear description of methods and  Conclusions. Sufficient Graphic Description. | Very detailed, correct, clear description of methods, and conclusions. |
| **7** | **Presentation of the micro project** | Major information is not included, information is not well organized. | Includes major information but not well organized and not presented well | Includes major information and well organized but not presented well | Well organized, includes major information ,well presented |
| **8** | **Defense** | Could not reply to considerable number of question. | Replied to considerable number of questions but not very properly | Replied properly to considerable number of question. | Replied most of the questions properly |

**Annexure – IV**

**Micro Project Evaluation Sheet**

**Name of Student:** Vedangee P, Sahil G, Chirag M, Hiten D

**Enrollment No:** 1900040114,115,145,146

**Name of Program:** Computer Engineering **Semester:** Fifth

**Course Title:** Client Side Scripting **Course Code:** 22519

**Title of the Micro-Project**

**Cos addressed by Micro Project:** (Tick appropriate COs)

1. Create interactive web pages using program flow control structure [ ✓ ]
2. Implement Arrays and functions in JavaScript. [ ✓ ]
3. Create event based web forms using JavaScript. [ ✓ ]
4. Use JavaScript for handling cookies. [ ✓ ]
5. Create interactive webpage using regular expressions for validations. [ ]
6. Create menus and navigations in web page. [ ✓ ]

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No** | **Characteristic to be assessed** | **Poor**  **( Marks1-3 )** | **Average**  **(Marks 4-5 )** | **Good**  **(Marks 6-8)** | **Excellent**  **( Marks9-10)** | **Sub Total** |
| **Process and Product Assessment (Convert Above Total marks out of 6 Marks)** | | | | | | |
| 1 | Relevance to the course |  |  |  |  |  |
| 2 | Literature review/ Information Collection |  |  |  |  |
| 3 | Completion of the Target as per project proposal |  |  |  |  |
| 4 | Analysis of Data and representation |  |  |  |  |
| 5 | Quality of Prototype/Model |  |  |  |  |
| 6 | Report Preparation |  |  |  |  |
| Individual Presentation / Viva (Convert above total marks out of 4 marks) | | | | | | |
| 7 | Presentation |  |  |  |  |  |
| 8 | Defense/Viva |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Roll No.** | **Process and Product Assessment (6 Marks)** | **Individual Presentation / Viva (4 Marks)** | **Total Marks**  **10** |
| **05** |  |  |  |
| **06** |  |  |  |
| **07** |  |  |  |
| **08** |  |  |  |

**Name and designation of the Teacher**: Mrs.Shubhangi Chintawar (Lecturer)

**Dated Signature**: